

### **Amendments to the Specification:**

Please replace the paragraph starting at page 36, line 8 to page 37, line 8 with the following amended paragraph:

In the switching power supply in accordance with Embodiment 1, the current flowing in the first choke coil 15 and the current flowing in the second choke coil 19 are added and smoothened by the smoothing capacitor 16, whereby a single output current is obtained. In addition, in Embodiment 1, the current detected by the first current detector 24 and the current detected by the second current detector 25 are added by the adder 26. Hence, the output of the adder 26 is a current for charging the smoothing capacitor 16. The first error amplifier 23 compares the output voltage across the output terminals 20a and 20b with the reference voltage of the reference power supply 22, and the error therebetween is amplified and used as a current reference signal. This current reference signal is compared with the output signal from the adder 26 by the second error amplifier 27, and the error therebetween is amplified. PWM control is carried out so that the error decreases. The reference triangular wave signals serving as the reference signals for the PWM control are output from the first triangular wave generator 28 ~~[[30]]~~ and the second triangular wave generator 29 ~~[[32]]~~ while having a phase difference of 180 degrees therebetween, and set so that the ON/OFF timing of each switching device is changed and so that ripple currents are cancelled at the output terminals.